

Title (en)  
USE OF A CIRCUIT BOARD

Title (de)  
ANWENDUNG EINER LEITERPLATTE

Title (fr)  
UTULISATION D'UNE CARTE DE CIRCUIT IMPRIMÉ

Publication  
**EP 3089563 B1 20230823 (EN)**

Application  
**EP 14897429 A 20141222**

Priority  
JP 2014083938 W 20141222

Abstract (en)  
[origin: EP3089563A1] A printed wiring board (100) includes a primary circuit (101) that receives power supply of a high voltage from a high power source; a pattern for a low voltage circuit (105) that is used when a low voltage component (102) used for a low voltage lower than the high voltage and a power supply terminal block that receives power supply of the low voltage from a low power source (112) are provided; a pattern for a common circuit (104) that is used when a high voltage component (108) used for the high voltage and the low voltage that insulates the pattern for the primary circuit (101) from the pattern for the common circuit (104); a first insulator (106) which insulates the pattern of the primary circuit (101) from the pattern of the common circuit (104); and a second insulator (107) that insulates the pattern for the common circuit (104) from the pattern for the low voltage circuit (105).

IPC 8 full level  
**H05K 1/02** (2006.01); **F24F 11/74** (2018.01)

CPC (source: EP US)  
**F24F 11/74** (2017.12 - EP US); **F24F 13/1426** (2013.01 - US); **H02K 5/225** (2013.01 - US); **H02M 7/003** (2013.01 - US); **H05K 1/02** (2013.01 - EP US); **H05K 1/0262** (2013.01 - EP US); **H05K 1/0269** (2013.01 - EP US); **H05K 1/029** (2013.01 - EP US); **F24F 2013/1433** (2013.01 - US); **H02M 7/106** (2013.01 - US); **H05K 1/181** (2013.01 - US); **H05K 2201/09936** (2013.01 - EP US); **H05K 2201/1009** (2013.01 - US); **H05K 2201/10189** (2013.01 - EP US); **H05K 2201/10363** (2013.01 - EP US); **H05K 2201/10522** (2013.01 - US); **H05K 2203/173** (2013.01 - EP US)

Citation (examination)  
• US 3492537 A 19700127 - INMAN DARWIN E  
• US 2013021826 A1 20130124 - SARDAT PIERRE [FR], et al

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 3089563 A1 20161102; EP 3089563 A4 20161102; EP 3089563 B1 20230823**; AU 2014415156 A1 20170413; AU 2014415156 B2 20180104; ES 2957210 T3 20240115; JP 6214794 B2 20171018; JP WO2016103326 A1 20170525; NZ 730234 A 20190329; US 10270357 B2 20190423; US 2017288495 A1 20171005; WO 2016103326 A1 20160630

DOCDB simple family (application)  
**EP 14897429 A 20141222**; AU 2014415156 A 20141222; ES 14897429 T 20141222; JP 2014083938 W 20141222; JP 2016565625 A 20141222; NZ 73023414 A 20141222; US 201415509308 A 20141222